•			ATTY DOCKET NO. UR-0206CV	SERIAL NO. 10/805,150					
NEORMATION DISCLOSURE CITATION									
(Use several sheets if necessary)					Applicants: Shaw H. Chen et al. FILING GROUP				
AUR 0 6: 2004 W				03/19/2004			1756		
13	U.S. PATENT DOCUMENTS								
EXAMINE INITIAL	e ruge	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING DAT	
h		US 2002/0086113 A1	07/04/2002	LEIGEI	BER ET AL.				
m		4,410,570	10/18/1983	KREUZ	ŒR ET AL.				
m	/	5,378,393	01/03/1995	CHEN I	ET AL.				
m	_ ′	5,417,882	05/23/1995	BACH I	ET AL.				
h		5,362,315	11/08/1994	MULLE	ER-REES ET AL.				
m	_	5,514,296	05/07/1996	CHEN I	ET AL.				
h		5,682,212	10/28/1997	MAURI	ER ET AL.				
m		5,683,622	11/04/1997	KRATZ	SCHMAR ET AL.				
low		5,695,680	12/09/1997	WEITZ	EL ET AL.				
m		5,827,449	10/27/1998	HANEL	T ET AL.		 ·		_
m	<u></u>	6,071,438	06/06/2000	LEIGE	BER ET AL.		_		
			FORE	IGN PATE	NT DOCUMENTS				
		DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSI YES	ATION NO
h		DE 3732115A1	04/06/1989	GERMA	ANY				✓
					,				
			,						
•		OTHER DOCUMEN	ITS (Including	g Author,	Title, Date, Pertinent P	ages, Etc.)		
hr	Sorai, M. et al., Glassy Liquid Crystal of the Nematic Phase of N-(o-Hydroxy-p-methoxybenzylidene)-p-butylaniline, S. Bull. Chem. Soc. Jpn., Vol. 44, p. 2887 (1971).								
lin	Tsuji, K. et al., New Finding of Glassy Liquid Crystal - a Non-equilibrium State of Cholesteryl Hydrogen Phthalate, S. Bull. Chem. Soc. Jpn., Vol. 44, p. 1452 (1971).					S. Bull.			
EXAMINER		There			DATE CONSIDERED	1/2/0	<u></u>		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									

Form PTO-A820 (also form PTO-1449)

a a			ATTY DOCKET NO. SERIAL NO. 10/805,150						
INFORTATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicants: Shaw H. Chen et al.					
AIR 0 6 2004 &				FILING 03/19/2004	GROUP				
				DOCUMENTS					
*EXAMINER	2 70,	DOCUMENT NUMBER	DATE		· NAME	CLASS	SUBCLASS	FILING DAT	E
	 	6,248,259	06/19/2001	IZUMI	ET AI	<u> </u>		IF APPROP	RIATE
2	-	 	 						
hi	1	6,423,246	07/23/2002	KASCH	I ET AL.				
	ļ								
		·							
			† · ·		<u> </u>				
	<u> </u>		·					<u> </u>	
· · · · · · · · · · · · · · · · · · ·	-				·	•			
	 						<u> </u>		
			·					ļ	
	<u> </u>								
	,		FORE	IGN PATEI	NT DOCUMENTS				
		DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANS YES	NO NO
					***-				
	<u> </u>								
	-								
· · · · · · · · · · · · · · · · · · ·	-								
	<u> </u>			A					
		OTHER DOCUME	NIS (Includin	g Author,	Title, Date, Pertinent Pa	ages, Etc.)			
							•		
							- 	-	
EXAMINER	₹	Thance			DATE CONSIDERED	1/3/2	/s-		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									

Form PTO-A820 (also form PTO-1449)

2		Docket Number (Optional)	Application Number
, .		UR-0206CV	10/805,150
INPORT	APON DISCLOSURE CITATION	Applicant(s)	
\0,	(See several sheets if necessary)	Shaw H. Chen et al.	
	e mark Col	Filing Date 03/19/2004	Group Art Unit 1756
AIR O E	8	· · · · · · · · · · · · · · · · · · ·	1730
'EXAMINER INITIA	OTHER DOCUMENTS (Including Author, Til	tle, Date, Pertinent Pages, Etc.)	
Se Lovice	Mer, W. et al., Vitrification in Low-molecular-v	veight Mesogenic Compounds, J. Mate	r. Chem., Vol. 1, pp. 347-356, (1991).
hu			
	Attard, G. et al., Liquid-crystalline and glass-form	ing dimers derived from 1-aminopyrer	ie, Liquid Crystals, Vol. 11, No. 5, pp.
_	785-789, (1992).	•	
lin	·		
	Dehne, H. et al., Sulphur ligated siamese twin meso	ogens, Liquid Crystals, Vol. 6, No. 1, p	p. 47-62, (1989).
hi			
-	Attard, G. et al., Low Molar Mass Liquid-Crystall	ine Glasses: Preparation and Properti	es of the a-(4-Cyanobiphenyl-4'-oxy) -
	ω-(1-pyreniminebenzylidene-4'-oxy)alkanes, Chen	n. Mater., voi. 4, pp. 1246-1253, (1992).
in			
	Tamaoki, N. et al., Optical and thermal properties	of cholesteric solid from dicholesteryl	esters of diacetylenedicarboxylic acid.
j	J. Mater. Chem., Vol. 9, pp. 2381-2384, (1999).		
hi			•
	Kreuzer, F. et al., Cyclic Siloxanes with Mesogenic	Side Groups Mol Cryst Lia Cryst	Vol. 199 pp. 345-378 (1991)
	re cuzer, i. et all, cyclic blioxalies with bressgenic	. Side Groups, Mon. Cryst. Ed. Cryst.,	νοι. 199, pp. 343-376, (1991).
and			
	Kreuzer, F. et al., Liquid-crystalline Silsesquioxane	es Makramal Chem Macramal Syn	on Vol 50 nn 215-228 (1991)
,	re cuzer, r. et al., Elquid-ci ystamile Susesquioxali	es, Mariomon Chem., Maciomon Syn	пр. Уок. 30, рр. 213-226, (1331).
h			
ļ			
	Gresham, K. et al., Phase Behavior of Cyclic Siloxa Chem. Vol. 32, pp. 2039-2047, (1994).	ine-Based Liquid Crystalline Compou	nds, J. Polym. Sci., Part A: Polym.
m	·		
	Lorenz, K. et al., A Mesogen-Functionalized Carbo Vol. 8, No. 5, pp. 414-416, (1996).	osilane Dendrimer: A Dendritic Liquid	Crystalline Polymer, Adv. Mater.,
ha		•	
	Ponomarenko, S. et al., Carbosilane Liquid Crystal Nanostructures, Macromolecules, Vol. 33, No. 15, p	lline Dendrimers: From Molecular Ar	chitecture to Supramolecular
	10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	-F. 22 17 2220) (200 0).	
m			
	Saez, I. et al., A Liquid-Crystalline Silsesquioxane	Dendrimer Exhibiting Chiral Nematic	and Columnar Mesophases, Chem.
	Eur. J., Vol. 7, No. 13, pp. 2758-2764, (2001).		
m			
	Percec, V. et al., Synthesis and Characterization of	Cyclic Liquid Crystalline Oligomers l	Based on
	1-(4-Hydroxy-4'-biphenylyl)-2-(4-hydroxyphenyl)b 3851-3861, (1992).	outane and 1,10-Dibromodecane, Macı	omolecules, Vol. 25, No. 15, pp.
m			
EXAMINER		DATE CONSIDERED	
•	Shewer	1/3/6	
		11110	~
I*EXAMINER: Initial if	citation considered, whether or not citation is in conforma	nce with MPFP Section 600. Draw line th	rough citation if not in conformance and

not considered. Include copy of this form with next communication to applicant.

× "		Desirat Number (O-sit)	A - Hantion Number
•	•	Docket Number (Optional) UR-0206CV	Application Number 10/805,150
INSORN	PATEON DISCLOSURE CITATION	Applicant(s)	10/003,230
70	(Use several sheets if necessary)	Shaw H. Chen et al.	
1 0	c anne a	Filing Date	Group Art Unit
AJE U	6 2004 W	03/19/2004	1756
*EXAMPLES	A. 7	ille, Date, Pertinent Pages, Etc.)	
N. Park	H. et al., Novel glassy nematic and chiral nem [(1R,3S)-(+)-camphoric acids, Liquid Crystals, Vol	atic oligomers derived from 1,3,5-cycle	ohexanetricarboxylic and
	(11455)-(1)-tampaone acias, Enquia Ciystais, 101	. 17, 110. 5, pp. 415 426, (1774).	
h			
	Shi, H. et al., Novel glass-forming liquid crystals I	I. Systems containing 1-phenyl-2-(6-cy	anonaphth-2-yl)ethyne as a high
	optical birefringence moiety, Liquid Crystals, Vol	. 18, No. 5, pp. 733-741, (1995).	·
ham			
	Mastrangelo, J. et al., Crystallization upon therma	al annealing of a glass-forming liquid o	rystal in the nematic regime, Appl.
	Phys. Left. Vol. 66, No. 17, pp. 2212-2214, (1995).	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
lin			
	Shi, H. et al., Effects of stereochemistry, mesogeni	r care and spacer length an erustalliza	tion from nematic and icotronic malte
	of cyclohexane-based glass-forming liquid crystals	Liquid Crystals, Vol. 19, No. 6, pp. 7	85-790, (1995).
bu			
	Chen, S. et al., Novel Glass-Forming Organic Mat Nematogenic Groups, Macromolecules, Vol. 28, N	erials. 1. Adamantane with Pendant C n. 23. nn. 7775-7778. (1995).	holesteryl, Disperse Red 1, and
h		· · · · · · · · · · · · · · · · · · ·	
	·		
	Shi, H. et al., Novel glass-forming liquid crystals.	III Helical sense and twisting power in	chiral nematic systems, Liquid
	Crystals, Vol. 19, No. 6, pp. 849-861, (1995).		
har	÷		
	De Rosa, M. et al., Dynamic Mechanical Relaxation	n Behavior of Low Molecular Weight	Side-Chain Cyclic Liquid Crystalline
,	Compounds near the Glass Transition Temperatu	re, Macromolecules, Vol. 29, No. 17, p	p. 5650-5657, (1996).
h			·
	Chen, S. et al., Novel glass-forming liquid crystals	IV. Effects of central core and penda	nt group on vitrification and
	morphological stability, Liquid Crystals, Vol. 21,	No. 5, pp. 683-694, (1996).	
h			
	Chen, S. et al., Novel Vitrifiable Liquid Crystals a	Ontirol Matariala Adv. Matar. Vol.	9 No 12 on 009 1001 (1006)
	Cuen, 3. et al., Novel Vitiliable Liquid Crystais a	o Optical Materials, Adv. Mater., Vol.	6, No. 12, pp. 998-1001, (1990).
w			
	Chen, S. et al., Novel Glass-Forming Organic Mat Macromolecules, Vol. 30, No. 1, pp. 93-97, (1997).	erials. 3. Cubane with Pendant Nemat	ogens, Carbazole, and Disperse Red 1,
in			
		·	
	Chen, S. et al., Circularly polarized light generate Vol. 397, pp. 506-508, (1999).	d by photoexcitation of luminophores i	n glassy liquid-crystal films, Nature,
h	νοι. 397, pp. 300-306, (1999).		
	Fan, F. et al., Novel Glass-Forming Liquid Crysta	ls. 6. High-Temperature Glassy Nemat	ics, Chem. Mater. Vol. 13, No. 12, pp.
	4584-4594, (2001).		
m			
EXAMINER		DATE CONSIDERED	
3	ffering -	Ihloc	
		1/1/2	···
*EYAMINED. Initial:	Caitatian asseidaned subathan as not situation is in conform	ance with MPFP Section 600. Draw line th	rough eitation if not in earle

P098/REV04

not considered. Include copy of this form with next communication to applicant.

		Docket Number (Optional)	Application Number
		UR-0206CV	10/805,150
וסאו	RMDT ON DISCLOSURE CITATION (Use several sheets if necessary)	Applicant(s) Shaw H. Chen et al.	
/ -	(Use Several States of accessory)	Filing Date	Group Art Unit
	0 6 2004 d	03/19/2004	1756
'EXAMILES INITIAL	THER DOCUMENTS (Including Author, Title Park F. et al., Novel glass-forming liquid crystals V. temperature, Liquid Crystals, Vol. 27, No. 9, pp. 12	le, Date, Pertinent Pages, Etc.)	
1	Tancker f. et al., Novel glass-forming liquid crystals V. temperature, Liquid Crystals, Vol. 27, No. 9, pp. 12	Nematic and chiral-nematic systems v 239-1248, (2000).	with an elevated glass transition
h			1
	Katsis, D. et al., Vitrified Chiral-Nematic Liquid Cr Mater., Vol. 11, No. 6, pp. 1590-1596, (1999).	rystalline Films for Selective Reflection	n and Circular Polarization, Chem.
la	hamberly con any or extensive and the control of th		·
	Chen, H. et al., Glass Liquid-Crystal Films with Op Adv. Mater., Vol. 12, No. 17, pp. 1283-1286, (2000).	posite Chirality as High-Performance	Optical Notch Filters and Reflectors
m	The state of the s	'	
	Ohno, M. et al., Chiral Synthons by Ester Hydrolys (1989).	is Catalyzed by Pig Liver Esterase, M	. Org. React. Vol. 37, pp. 1-55,
lu	-		
	Engel, M. et al., Regiospecific Synthesis of 3,5-Bis(b	oromomethyl)benzoic Acid, A Cysteine	e Crosslinking Agent, Tetrahedron,
h	Vol. 49, No. 39, pp. 8761-8770, (1993).		
	Dreher, R. et al., Optical Properties of Cholesteric I	Liquid Crystals, Physical Review A, V	ol. 8, No. 3, pp. 1616-1623, (1973).
hr			
	Beginn, U. et al., Liquid Crystalline Primary Benzai	mides, Mol. Cryst. Liq. Cryst., Vol. 24	i1, pp. 215-219, (1994).
ho			1
<u> </u>	· .		
EXAMINER	. 1	DATE CONSIDERED	
	Than	13/05	
+=====================================	al if citation considered whether or not citation is in conforman	and the second of the second o	h shede if all f

not considered. Include copy of this form with next communication to applicant.